

# AAA CHASER

OUR SIXTY SECOND YEAR

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Editor

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Publisher

MEETINGS: 2nd and 4th Fridays each Month

Newsletter #4

U. C. Missions Bldg.

Burnham Hall

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222 S. Downey Ave.

8:00 P. M.

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MEETING: April 14, 1978

Mike Blake, K9JRI Has consented to tell us all about converting the various CF rigs for operations on 10 meters. An easy and cheap way to get on ten meters.

PROGRAM REVIEW On March 10th. Dick Judkins, Consulting Engineer, presented a program on low cost Voltage Regulated DC Power supplies for use with solid state technology. Dick illustrated his talk with well prepared transparencies and showed a typical supply he built recently using these circuits. The PS starts off with the usual full wave of bridge rectifier-filter cap. circuit which feeds a three terminal regulator IC having an input, Output and gnd. These units are supplied in a wide variety of output voltages and currents by several vendors at very low cost. It is necessary to bypass the input and output terminals right at the regulator terminals in order to obviate High Freq. Oscillation which will spoil the regulator action if not properly used. If voltages other than those provided by the chip are required, a voltage divider across the output with the common terminal returned to the resistor tap will provide voltages higher than the rating. The regulator is easily zapped if the input voltage suddenly should drop to zero while the output voltage stays high due to charged filter caps. The chip can be readily protected by placing a reverse connected diode across input-output to provide a discharge path around the regulator. Several good trade books are available covering circuits and use of regulators, one by National Semiconductors. The 7800 series regulators should do the trick; the last two numbers being the voltage rating of the output. Dick says "Try one, you'll like it."

SCHOOL DAYS Code and Theory classes are currently being given at the John Marshall High School, 38th and Mitthofer Rd. by Ron Wright, N9EE in charge. Novice classes are held Tuesdays and advance courses Thursdays, both from 7 to 9 PM. These are 10 week long with a course fee of \$20.00 each. Ron can be reached at 353-3218. Ron will be remembered for his recent fine program last season at the Club on Freq. Synthesizers, Phase-lock-loops and Binary logic. We applaud this valuable service to Amateur Radio.

HELP Ron Cooper, WB9DKL is seeking aid from anyone who can help him get a bug out of his gab machine. It seems it takes a sudden freq jump for no apparent reason, and defies all attempts to locate. Call Ron at 873-2314 your help will be greatly appreciated.

OSCAR 8 This latest Amateur satellite was perfectly launched and its two beacons are producing loud signals at 435.095 and 29.402 Mhz. It is in a circular orbit at an elevation of 565 miles and a period of 103 Mins. After preliminary testing Oscar 8 is now in full service. Oscar 7 still has a fever, ie, too high a temp so can't be used on Mode A only Mode B is useable at the present.



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SILENT KEY

It is with deep regret that we record the death of James Sugioke, W9CKB and W9IXR at Wishard Hospital following injuries suffered when his car fell on him while making some repairs. Jim was retired from the Disciples of Christ Church where he served as an ordained minister where he was in charge of Church Equipment Services for many years. Jim held the Advanced Class license and was a member of ARRL. He operated on the low bands mostly CW and was often heard on 2 meter FM. He served with distinction two terms as President of the Club, 1973-74, as well as in many other offices. He was the Award of Appreciation winner in 1974. He made a number of important contributions to Amateur Radio including the establishment of the Disciples Amateur Radio Fellowship which maintains communications with foreign as well as domestic missions using the excellent station facilities under the call W9WE. We shall all miss his infectious good humor, dedication and wise counsel.

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PROGRAM REVIEW On March 24th, 1978 Dave Brown, W9CGI presented a combined tape and oral program on Amateur Communications via Oscar satellites, sanctioned by Radio Amateur Satellite Corp. builders and designers of these systems which are put into orbit by NASA at no extra charge. Oscar 6 is considered kaput now but Oscar 7 is still functioning. These units contain 2 and 10 meter transponders and operate like earth based repeaters. The new Oscar 8 is up now in a very stable orbit and open for use, in a polar orbit about 565 miles up in a circular orbit. A new Oscar 9 is in planning stage for GO in August 1978. It will be placed in a semi-stationary orbit over land masses so that access will be up to 5 hours. 135 Milliwatts is needed to operate, so high power rigs should be avoided. Antennas having a gain of 26 DB are used and tracking is made by reference orbit and by time. Here is a fine chance to add a new dimension to your hobby.

BIG TEETH The FCC can now go after both licensed and unlicensed culprits after having been given new legislation recently signed by Pres. Carter. They can fine up to \$2000 now and go after anybody under their jurisdiction. An example of lawbreakers are Police Radars, not only are they not licensed to emit radiation but, being commercial equipment, their users do not hold a valid FCC ticket, either. Two strikes...

WANTED Books or information on the following equipment: Eico #565 Multimeter and a Heathkit Tube type Audio Generator. If you can help, contact Dave Timmerman, WB9CER at 897-2052.

DUES The March 31st deadline has passed, Those of you who have not paid your 1978 dues, this will be the last copy of Ama-Chewer you will receive until you have paid up. So GET WITH IT and remain in good standing and continue to receive AMA-CHEWER your club Newsletter.

DX Sun spots and solar flux continues to increase despite temporary setbacks with all sorts of Asiatic goodies available on most bands. 20 goes round the clock with 15 good all day and 10 hot part of the mid-day period. 40 is still showing good DX but 80 is declining due to absorption and spring-summer noise increasing. Clipperton was on all week with S-9 sigs all bands and modes. YI1BGD is due first of April and YU1NZV due from Baghdad soon. New U.S. Prefixes for Caribbean and Pacific, KH1 Canton, KH2 Guam, KH3 Johnston, KH4 Midway, KH5 Palmyra, KH6 Kure, KH8 Samoa, KH9 Wake/ Also KP1 Navasse, KP2 Virg Is. KP3 Serrana Bank.